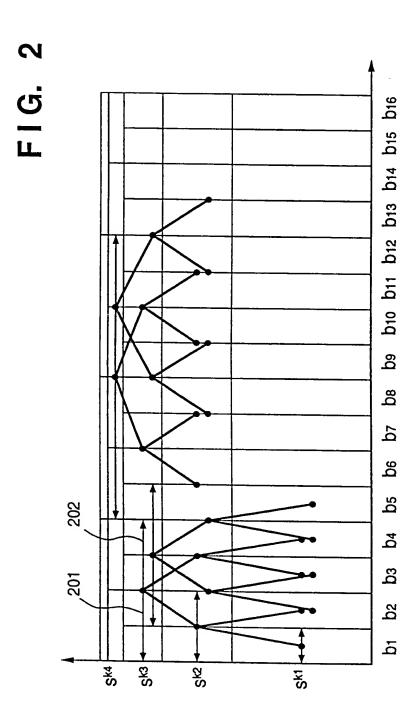


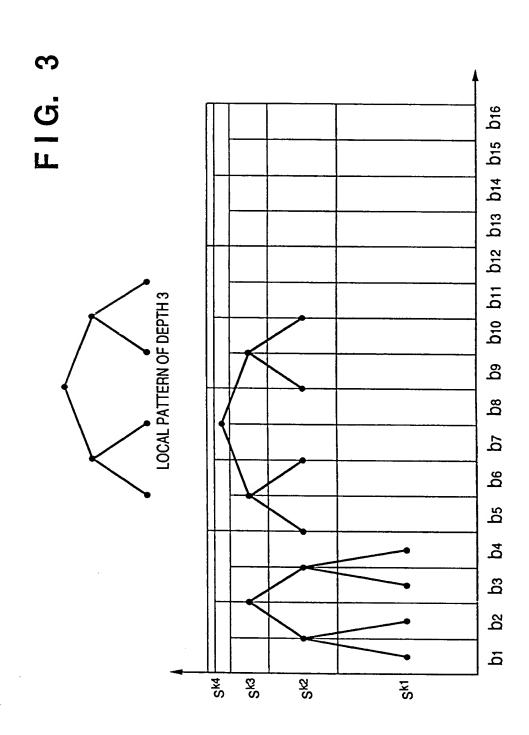
FIG. 1

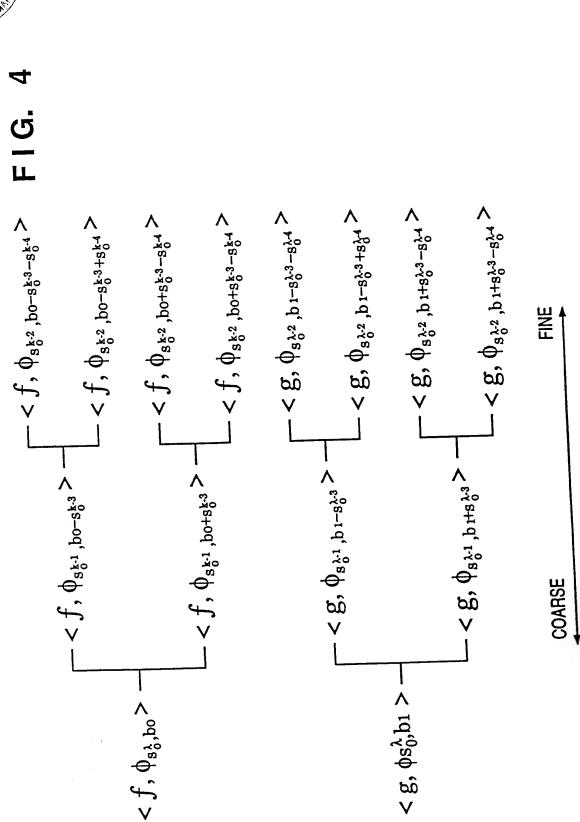








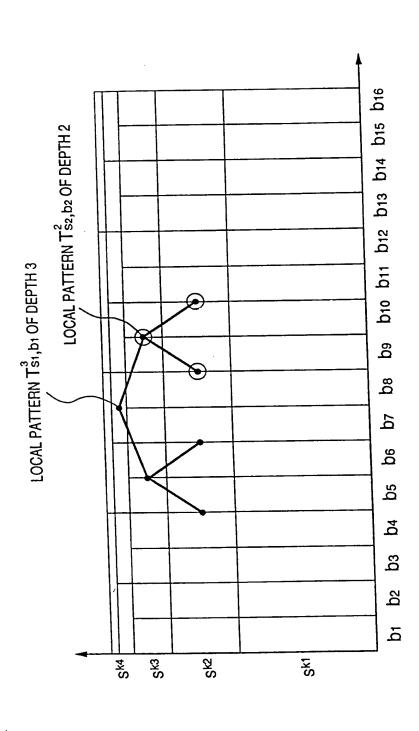




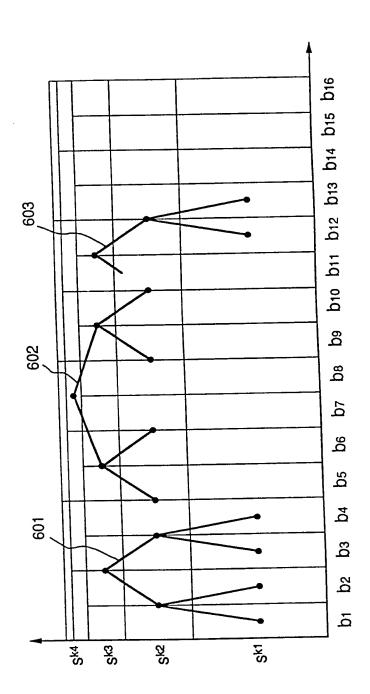
ß



FIG. 5



F1G. 6



F1G. 7 TRANSFORMATION UNIT TRANSFORMATION ENCODER INFORMATION PROCESSOR SINGULARITY DETECTOR √ 1102 IMAGE INPUT UNIT ARRAY SENSOR 1106 INPUT-PARAMETER CONTROLLER WIDE-VIEW LENS



FIG. 8

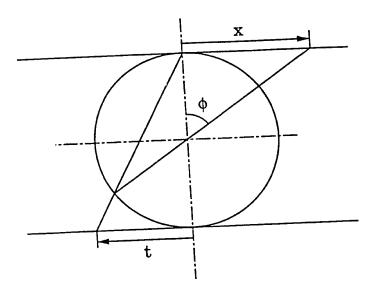


FIG. 9

5 m-1,n+1	$g_{m,n+1}$	G
	$\mathfrak{S}_{m,n+1}$	$g_{m+1,n+1}$
$g_{m-1,n}$	$g_{m,n}$	$g_{m+1,n}$
g _{m-1,n-1}	$g_{m,n-1}$	g _{m+1,n-1}



FIG. 10

